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TI - PROBE FOR ULTRASONIC DIAGNOSTIC APPARATUS  
IN - NAKAO SHIGETAKA; IWASHITA NOBUSHI; HAYAKAWA KENICHI  
PA - FUJITSU LTD  
IC - A61B8/00 ; A61B8/06 ; G01N29/04 ; G03B42/06

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AB - PURPOSE: To miniaturize a probe by increasing attenuation quantity of an unnecessary ultrasonic wave, by mixing a piezoelectric fine bodies covered with a conductive film having desired electric resistance with the synthetic resin of a backing material.  
- CONSTITUTION: In a transmitting-receiving part 210, the vibrator element 213 formed inside a outer film 211 is operated by a drive source to generate an ultrasonic wave and emits the useful ultrasonic wave toward the living body in front of the film 211 while emits an unnecessary ultrasonic wave toward the backing material 215 on the side of the opposite surface of the element 213. The unnecessary ultrasonic wave is transmitted through the thermosetting resin in the backing material 215 to charge the piezoelectric powders 221 present in the resin to convert the acoustic energy possessed by the unnecessary ultrasonic wave to charge energy. Since the outer periphery of each of the piezoelectric powders 221 is covered with the conductive film 223, said energy is discharged while transmitted through said film to be converted to Joule heat by electric resistance. Therefore, the unnecessary ultrasonic wave is largely attenuated and a probe can be miniaturized.  
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